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File: DWPI

Oct 20, 1993

DERWENT-ACC-NO: 1993-329667

DERWENT-WEEK: 200243

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TITLE: Snap fastener bonded by welding to the base film of a packaging bag - is made of linear-chain LDPE and retains resealability characteristics over wide temp. range

INVENTOR: TAKUBO, T; YAMAMOTO, S

PATENT-ASSIGNEE: IDEMITSU PETROCHEM CO (IDEM), IDEMITSU PETROCHEM CO LTD (IDEM), IDEMITSU SEKIYU KAGAKU KK (IDEM)

PRIORITY-DATA: 1992JP-0097918 (April 17, 1992)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> EP 566363 A1	October 20, 1993	E	012	A44B019/16
<input type="checkbox"/> KR 287435 B	November 22, 2001		000	B65D033/16
<input type="checkbox"/> AU 9336927 A	October 21, 1993		000	A44B017/00
<input type="checkbox"/> JP 05294352 A	November 9, 1993		004	B65D033/25
<input type="checkbox"/> US 5415904 A	May 16, 1995		008	B65D033/25
<input type="checkbox"/> AU 670936 B	August 8, 1996		000	A44B017/00
<input type="checkbox"/> EP 566363 B1	June 17, 1998	E	000	A44B019/16
<input type="checkbox"/> DE 69319171 E	July 23, 1998		000	A44B019/16

DESIGNATED-STATES: DE FR GB DE FR GB

CITED-DOCUMENTS: EP 339324; EP 371402 ; GB 2120999

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 566363A1	April 14, 1993	1993EP-0302861	
KR 287435B	April 14, 1993	1993KR-0006174	
AU 9336927A	April 15, 1993	1993AU-0036927	
JP 05294352A	April 17, 1992	1992JP-0097918	
US 5415904A	April 16, 1993	1993US-0049003	
AU 670936B	April 15, 1993	1993AU-0036927	
AU 670936B		AU 9336927	Previous Publ.

EP 566363B1	April 14, 1993	1993EP-0302861	
DE 69319171E	April 14, 1993	1993DE-0619171	
DE 69319171E	April 14, 1993	1993EP-0302861	
DE 69319171E		EP 566363	Based on

INT-CL (IPC): A44B 17/00; A44B 19/16; B32B 27/08; B65D 33/16; B65D 33/24; B65D 33/25

ABSTRACTED-PUB-NO: EP 566363A
BASIC-ABSTRACT:

Fastener has a polymer compsn. portion capable of being welded to an object to be provided with the fastener, comprising L-LDPE opt. contg. a minor amt. of LDPE. Pref. the wt. ratio = 95:5-60:40 wt.%, and the M.I. of the compsn. is 1-15g/10 mins..

Packaging bag capable of being opened and closed repeatedly, pref. comprises a bag body fabricated at three end portions and having such a fastener welded to one end portion other than the three end portions of the bag body. Pref. the bag body has, welded to the snap fastener, an inner side layer of L-LDPE. Opt. the bag body may consist of a number of laminated layers of which an outer layer is made of nylon.

USE/ADVANTAGE - Snap fastener enables repeated opening and closing along one side of packaging bags which are useful for contg. items e.g. foodstuffs, pharmaceutical prepn., and haberdashery. Closures for such resealable bags typically comprise a male half-member which intermeshes removably with a female half-member. Base film for the bag may be extruded with the members as part of the profile, but this places constraints on e.g. the type of resin used and the applicability of the process to laminated films. Alternatively the fastener is fabricated separately as a two-piece tape and subsequently adhered/welded to the base film. This method allows a much wider range of variables in construction of the bags and is generally pref.. Good adhesion over wide temp. range.

ABSTRACTED-PUB-NO: EP 566363B
EQUIVALENT-ABSTRACTS:

Fastener has a polymer compsn. portion capable of being welded to an object to be provided with the fastener, comprising L-LDPE opt. contg. a minor amt. of LDPE. Pref. the wt. ratio = 95:5-60:40 wt.%, and the M.I. of the compsn. is 1-15g/10 mins..

Packaging bag capable of being opened and closed repeatedly, pref. comprises a bag body fabricated at three end portions and having such a fastener welded to one end portion other than the three end portions of the bag body. Pref. the bag body has, welded to the snap fastener, an inner side layer of L-LDPE. Opt. the bag body may consist of a number of laminated layers of which an outer layer is made of nylon.

USE/ADVANTAGE - Snap fastener enables repeated opening and closing along one side of packaging bags which are useful for contg. items e.g. foodstuffs, pharmaceutical prepn., and haberdashery. Closures for such resealable bags typically comprise a male half-member which intermeshes removably with a female half-member. Base film for the bag may be extruded with the members as part of the profile, but this places constraints on e.g. the type of resin used and the applicability of the process to laminated films. Alternatively the fastener is fabricated separately as a two-piece tape and subsequently adhered/welded to the base film. This method allows a much wider range of variables in construction of the bags and is generally

pref.. Good adhesion over wide temp. range.

US 5415904A

Snap fastener comprises a heat resistant welding portion to be welded to an object, comprising a melt index of 1-15g/10 minutes and selected from the group consisting of linear low density polyethylene and a resin blend of linear low density polyethylene and low density polyethylene in a ratio of 95-60 wt. %: 5-40 wt. %.

Pref., the welding portion of the snap fastener is made of the resin blend of linear low-density polyethylene and low density polyethylene. Pref. the welding portion has a thickness of 80-220 microns. An outer side layer adhered to the inner side layer is made of nylon.

ADVANTAGE - Good heat resistance and reliable adhesion are attained.

CHOSEN-DRAWING: Dwg.4/4 Dwg.0/4

DERWENT-CLASS: A17 A92 B07 P23 P73 Q32

CPI-CODES: A04-G06; A12-P02; A12-P03; B04-C03D; B11-C06;

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